Middle School CTE Courses that lead to Secondary Programs of Study 2012-2013

	Middle School Cours	ses	Secondary Programs of Study
5-6 th Grade	7 th Grade	8 th Grade	, ,
Steven Gass, C	Consultant	615-532-2	847 steven.gass@tn.gov
		Exploring Agricultural Sciences (0844)	Animal Systems – Pre-Veterinary Animal Systems – Production Animals Power, Structures, & Technical Systems Agri-Business, Food Products & Process Systems Environmental & Natural Resources Systems
			Plant Systems – Landscaping & Turf science Plant Systems – Horticulture Production Agricultural Education Systems Landscape Design
Joy Smith, Con		615-532-6	., -
	Keyboarding (0710) Document Formatting (0713)	Keyboarding (0810) Document Formatting (0812)	Human Resources Business Management Business Financial Management & Accounting Business Analysis Administration & Information Support Communications Development Financial Planning Banking & finance Public/Nonprofit Management & Administration Electronic Publishing Interactive Multimedia Web/Multimedia Management / Webmaster Programming & Software Development
Emily Williams	s, Consultant	615-532-2	840 emily.c.williams@tn.gov
	Teen Living (0739)	Teen Living (0839)	Interior Design Fashion Design Teaching Training Services Pre-K – Early Childhood Education Food & Beverage Services Consumer Services Counseling & Mental Health Services Family & Community Services Nutritional Counseling
Tom D'Apolito	, Consultant	615-532-2	844 tom.dapolito@tn.gov
Exploring Technology (0535/0635)	Inventions & Innovations (0735)	Technological Systems (0835)	Engineering & Technology Science & Mathematics Web Design Production Design Precision Productions Precision Machining

Agriculture, Food & Natural Resources

Steven Gass, Consultant

615-532-2847

steven.gass@tn.gov

•	aitaiit			steveni.gass@tii.gov
Program of Study		CTE Coursework		
·	9 th Grade	10 th Grade	11th Grade	12 th Grade
Animal Systems – Pre Veterinary	Agriscience (HQ) (5171)	Small Animal Care (5172)	Horse Science (5168)	Veterinary Science (5176)
	Principles of Agricultural Sciences (5154)			
Animal Systems – Production	Agriscience (HQ) (5171)	Advanced Principles of Agricultural	Livestock Management	Animal Biotechnology (5186)
Animals	Principles of Agricultural Sciences (5154)	Sciences (5155)	(5177)	
Power, Structures & Technical	Agriscience (HQ) (5171)	Agricultural Mechanics &	Agricultural Power & Equipment	Agricultural Engineering
Systems	Principles of Agricultural Sciences (5154)	Maintenance (5151)	(5152)	(5178)
Agribusiness, Food Products & Process Systems	Agriscience (HQ) (5171)	Leadership Communications (5169)	Agricultural Sales & Marketing (5153)	Agricultural Business/Finance (5150)
	Principles of Agricultural Sciences (5154)			Agricultural Economics (5183)*
Environmental & Natural Resource	Agriscience (HQ) (5171)	Forestry Management (5165)	Wildlife Management & Recreation	Plant & Soil Science (5161)
Systems	Principles of Agricultural Sciences (5154)		(5174)	
Agricultural Education	Agriscience (HQ) (5171)	Advanced Principles of Agricultural	Leadership Communications	Plant & Soil Science (5161)
Systems	Principles of Agricultural Sciences (5154)	Sciences (5155)	(5169)	
Plant Systems – Landscaping &	Agriscience (HQ) (5171)	Landscaping & Turf Management	Greenhouse Management	Plant Biotechnology (5175)
Turf Science	Principles of Horticultural Sciences (1584)	(5163)	(5167)	
Plant Systems – Horticulture Production	Agriscience (HQ) (5171)	Aquaculture / Hydroponics (5159)	Greenhouse Management (5167)	Plant Biotechnology (5175)
	Principles of Horticultural Sciences (1584)	Floral Design (5164)*	. ,	

Entry-level courses are not grade-level specific * Requires a special Program of Study Request

Architecture & Construction

Sue Tucker, Consultant

615-532-2835

sue.tucker@tn.gov

Program of Study	CTE Coursework				
	9 th Grade	10 th Grade	11th Grade	12 th Grade	
Design & Preconstruction	Foundations of Technology (3835)	Computer-Aided Drafting (3848)	Computer-Aided Drafting II (5752 or 3849)	Advanced Drafting & Design (5745 or 3850)	
		Computer-Aided Drafting I (5750)		Comp. Aided Drafting & Design II / Adv. Drafting & Design (5751 or 3851)	
Construction Electrical	Career Management Success (5701) (optional)	Construction Core (5814)	Electrical I (5815)	Electrical II (5816)	
Construction Masonry & Concrete	Career Management Success	Construction Core (5814)	Masonry I (5820)	Masonry II (5821)	
	(5701) (optional)		Concrete I (5753)	Concrete II (5754)	
Construction Plumbing	Career Management Success (5701) (optional)	Construction Core (5814)	Plumbing I (5822)	Plumbing II (5823)	
Construction HVAC/R	Career Management Success (5701) (optional)	Construction Core (5814)	HVAC/R I (5817)	HVAC/R II (5818)	
Construction Welding	Career Management Success (5701) (optional)	Introduction to Welding (5819)	Basic Principles Welding (5747)	Advanced Welding Applications & Certification (5746)	
Construction Carpentry	Career Management Success (5701) (optional)	Construction Core (5814)	Carpentry I (5748)	Carpentry II (5749)	
Interior Design	Family & Consumer Sciences (5603) Personal, Academic & Career Excellence (5624)	Interior Design (5626)	Housing (5614)	Life Connections (5623)	
Landscape Design	Principles of Horticultural Sciences (1584) Agriscience	Landscaping & Turf Management (5163)	Computer-Aided Drafting (3848) Computer-Aided	Greenhouse Management (5167)	
	(1571)		Drafting I (5750)		

Entry-level courses are not grade-level specific

Arts, Audio/Video Technology & Communications

Marty Willis, Executive Director of Student Success

615-741-8836 | marty.willis@tn.gov

Program of Study		CTE Co	oursework	
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Graphic	Career Management	Digital Arts &	Printing Graphics	Printing Graphics
Communications	Success	Design I	Technology I	Technology II
	(5701) (optional)	(5825)	(5829)	(5772)
Design	Digital Arts &	Digital Arts &	Digital Arts &	Animation/Simulation
Communications	Design I	Design II	Design III (5828)	& Motion Graphics
	(5825)	(5827)	Digital Arts &	(5773)
			Design II/Digital Arts	
			& Design III	
			(5826)	
Audio Technology	Career Management	Audio Production I	Audio Production II	Audio Production III
	Success	(5774)	(5776)	(5777)
	(5701) (optional)			Audio Production II /
				Audio Production III
				(5775)
Journalism &	Career Management	Broadcasting I	Broadcasting II	Broadcasting III
Broadcasting	Success	(5778)	(5779)	(5824)
	(5701) (optional)			
Fashion Design	Family & Consumer	Fashion Design &	Textiles & Apparel	Life Connections
	Sciences	Merchandising	(5619)	(5623)
	(5603)	(5621)		
	Personal, Academic			
	& Career Excellence			
	(5624)			

Entry-level courses are not grade-level specific

Business Management & Administration

Joy Smith, Consultant

615-532-6248

joy.smith@tn.gov

Program of Study		CTE Cor	ursework	
	9 th Grade	10 th Grade	11th Grade	12 th Grade
Human Resources	Word Processing	eBusiness	Interactive	Advanced Computer
	(3781)	Communications	Multimedia	Applications
		(3704)	Presentation	(3770)
			(3746)	
Business	Personal Finance	Accounting I	Business	Virtual Enterprise
Management	(3766, 5038 or 5613)	(3779)	Management	International
	Financial Planning		(3707)	(3757 or 3762)
	(3717)			
Business Financial	Computer	Accounting I	Accounting II	Business
Management &	Application	(3779)	(3780)	Management
Accounting	(3718)			(3707)
Business Analysis	Personal Finance	Accounting I	Business Economics	Banking & Finance
	(3766, 5038 or 5613)	(3779)	(3755 or 3765)	(3756)
	Financial Planning		Spreadsheet	
	(3717)		Applications	
A 1	Б	W 1D :	(3729)	A 1 2 2 4 42
Administrative &	Document	Word Processing	eBusiness	Administrative
Information Support	Formatting	(3781)	Communications	Management
	(3775)		(3704)	(3737)
	Database			
	Design/Management			
Communications	(3735)	Ducinasa Drincinlas	a Duraina a a	A duainiatuativa
Communications	Word Processing	Business Principles	eBusiness Communications	Administrative
Development	(3781)	(3771)	Communications	Management
			(3704)	(3737)

Entry-level courses are not grade-level specific

Emily Williams, Consultant

Education & Training 615-532-2840

emily.c.williams@tn.gov

Program of Study	CTE Coursework			
	9 th Grade	10 th Grade	11th Grade	12 th Grade
Teacher Training Services	Family & Consumer Sciences (5603) Personal, Academic & Career Excellence (5624)	Child & Lifespan Development (5625)	Life Connections (5623)	Teaching as a Profession (5622)
Teacher Training Services – Pre-K Early Childhood Education	Family & Consumer Sciences (5603) Personal, Academic	Early Childhood Education Careers I (5650)	Early Childhood Education Careers II (5660)	Early Childhood Education Careers III (5661) Early Childhood
	& Career Excellence (5624)			Education Careers II/III (5662)

Entry-level courses are not grade-level specific

Joy Smith, Consultant

Finance 615-532-6248

joy.smith@tn.gov

Program of Study	CTE Coursework			
	9 th Grade	10 th Grade	11th Grade	12 th Grade
Banking & Finance	Computer Applications (3718)	Accounting I (3779)	Personal Finance (3766, 5038 or 5613) Financial Planning (3717)	Banking & Finance (3756)
Financial Planning	Computer Applications (3718)	Personal Finance (3766, 5038 or 5613) Financial Planning (3717)	American Business/ Legal Systems (3719 or 3726 Business Economics (3755 or 3765)	Banking & Finance (3756)

Entry-level courses are not grade-level specific

Government Public Administration

Marty Willis, Executive Director of Student Success

615-741-8836 | marty.willis@tn.gov

Program of Study		CTE Coursework			
	9 th Grade	10 th Grade	11th Grade	12 th Grade	
Public/Nonprofit	Personal Finance	Financial Planning	eBusiness	Administrative	
Management &	(3766, 5038 or 5613)	(3717)	Communications	Management	
Administration			(3704)	(3737)	
				Business	
				Management	
				(3707)	
National Security	Career Management	Criminal Justice I	Criminal Justice II	Criminal Justice III	
	Success	(5401)	(5402)	Forensic Science	
	(5701) (optional)			Investigation	
				(5403)	
				Criminal Justice II/ III	
				(5343)	

Entry-level courses are not grade-level specific

Health Science

Sheila Carlton, Consultant 615-532-2839

sheila.carlton@tn.gov

Program of Study		CTE Cou	ursework	
	9 th Grade	10 th Grade	11th Grade	12 th Grade
Biotechnology Research & Design	Health Science Education (5526)	Diagnostic Medicine (5521)	Anatomy & Physiology (5516HQ or 5517)	Biomedical Applications (5518HQ or 5519)
Biotechnology & Forensic Science Research & Development	Health Science Education (5526)	Diagnostic Medicine (5521)	Anatomy & Physiology (5516HQ or 5517)	Forensic Science (5523HQ or 5524)
Diagnostic Services	Health Science Education (5526)	Rehabilitation Careers (5515)	Diagnostic Medicine (5521)	Clinical Internship (5520)
Health Informatics	Health Science Education (5526)	Diagnostic Medicine (5521)	Health Information Technology (5525)	Clinical Internship (5520)
Therapeutic Services	Health Science Education (5526)	Medical Therapeutics (5527)	Anatomy & Physiology (5516HQ or 5517)	Nursing Education (5528)
Therapeutic Emergency Services	Health Science Education (5526)	Medical Therapeutics (5526)	Anatomy & Physiology (5516HQ or 5517)	Emergency Medical Services (5522)

Entry-level courses are not grade-level specific

Hospitality & Tourism

Sue Tucker, Consultant

615-532-2835

sue.tucker@tn.gov

Program of Study	CTE Coursework				
	9 th Grade	10 th Grade	11th Grade	12 th Grade	
Food & Beverage	Family & Consumer	Culinary Arts I	Culinary Arts II	Culinary Arts III	
Services	Sciences (5603)	(5663 or 5386)	(5664 or 5387)	(5665 or 5388)	
	Personal, Academic &			Culinary Arts II/III	
	Career Excellence			(5659 or 5384)	
	(5624)			,	
Hospitality &		Marketing &	Travel & Tourism	Hospitality	
Tourism		Management I	Operations	Management	
Management		Principles	(5003)	(5026)	
		(5000 or 5030)	,	,	
Recreation,		Marketing &	Travel & Tourism	Sports &	
Attractions, Sports, &		Management I	Operations	Entertainment	
Entertainment		Principles	(5003)	Marketing	
		(5000 or 5030)	` ,	(5023)	

Entry-level courses are not grade-level specific

Program of Study	CTE Coursework				
	9 th Grade	10 th Grade	11th Grade	12 th Grade	
Family & Community Services	Family & Consumer Sciences (5603) Personal, Academic & Career Excellence (5624)	Child & Lifespan Development (5625)	Nutrition & Foods (5609)	Life Connections (5623)	
Early Childhood Development & Services	Family & Consumer Sciences (5603) Personal, Academic & Career Excellence (5624)	Early Childhood Education Careers I (5650)	Early Childhood Education Careers II (5660)	Early Childhood Education Careers III (5661) Early Childhood Education Careers II/III (5662)	
Counseling & Mental Health Services	Family & Consumer Sciences (5603) Personal, Academic & Career Excellence (5624)	Child & Lifespan Development (5625)	Family & Parenting (5606)	Life Connections (5623)	
Consumer Services	Family & Consumer Sciences (5603) Personal, Academic & Career Excellence (5624)	Consumer Economics (5602 or 5605	Personal Finance (5613, 5038 or 3766)	Life Connections (5623)	
Nutritional Counseling	Family & Consumer Sciences (5603) Personal, Academic & Career Excellence (5624)	Nutrition & Foods (5609)	Nutrition Science (5615, 5616, 5617 or 5618)	Child & Lifespan Development (5625)	
Personal Care Services	Career Management Success (5701) (optional)	Principles of Cosmetology (5391)	Design Principles of Cosmetology (5394)	Chemistry of Cosmetology (5392)	
Cosmetology	Career Management Success (5701) (optional)	Principles of Cosmetology (5391)	Design Principles of Cosmetology (5394)	Design Principles / Chemistry of Cosmetology (5393)	
Barbering	Career Management Success (5701) (optional)	Barbering I (5344)	Barbering II (5345)	Barbering III (5346)	

Entry-level courses are not grade-level specific

Information Technology

Tom D'Apolito, Consultant

615-532-2844

tom.dapolito@tn.gov

Program of Study		CTE Cour	sework	
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Web/Multimedia Management/ Webmaster	Computer Applications (3718)	Interactive Multimedia Presentation (3746)	Web Design Essentials (3768)	Web Design Applications (3769)
Programming & Software Development	Computer Applications (3718)	Computer Programming I (3772)	Computer Programming II (3773)	Game Programming (3774)
Networking Systems	Information Technology Foundations (5842)	Computer Systems (5841)	Networking (5844)	Cabling & Internetworking (5840) IT Clinical (5843)
Web Design	Career Management Success (5701) (optional) Foundations of Technology (3835)	Web Page Design I Foundations (5847) Web Site I – Foundations (3840)	Web Page Design II Site Designer (5857) Web Design II Site Designer (3841)	Web Page Design III eCommerce (5839) Web Page Design III eCommerce (3842)
Programming & Gaming	Career Management Success (5701) (optional)	Information Technology Foundations (5842)	Programming & Logic I (5845)	Programming & Logic II (5846)
Electronic Publishing	Word Processing (3781)	eBusiness Communications (3704)	Desktop Publishing (3741)	Advanced Computer Applications (3770)
Interactive Media	Computer Applications (3718)	Interactive Multimedia Presentation (3746)	Desktop Publishing (3741)	Advanced Computer Applications (3770)

Entry-level courses are not grade-level specific

Law, Public Safety, Corrections & Security

Marty Willis, Executive Director of Student Success

615-741-8836 | marty.willis@tn.gov

Program of Study	CTE Coursework			
	9 th Grade	10 th Grade	11th Grade	12 th Grade
Law Enforcement	Career Management	Criminal Justice I	Criminal Justice II	Criminal Justice III
Services	Success	(5401)	(5402)	Forensic Science
	(5701) (optional)			Investigation
				(5403)
				Criminal Justice II & III
				(5343)
Security & Protective	Information	Computer Systems	Networking	Cabling & Internetworking
Services	Technology	(5841)	(5844)	(5840)
	Foundations			IT Clinical
	(5842)			(5843)

Entry-level courses are not grade-level specific

Manufacturing

Tom D'Apolito, Consultant

615-532-2844

tom.dapolito@tn.gov

Program of Study	CTE Coursework			
1 rogram or olday				12 th Grade
Production Design	Career Management Success (5701) (optional)	Computer Aided Drafting I (3848 or 5750)	Computer Aided Drafting II (3849 or 5752)	Advanced Drafting & Design (5745)
	Foundations of Technology (3835)			Computer Aided Drafting II / Advanced Drafting & Design (3851 or 5751)
Operations & Maintenance	Career Management Success (5701) (optional)	Introduction to Welding (5819)	Basic Principles Welding (5747)	Advanced Welding Application & Certification (5746)
Precision Productions	Principles of Engineering (3845 or 5836)	Principles of Manufacturing (3843 or 5830)	Principles of Machining & Manufacturing (3844 or 5837)	Manufacturing Applications (3847 or 5835)
Precision Machining	Principles of Machining (3852 or 5838)	Digital Electronics (3846 or 5831)	Principles of Machining & Manufacturing (3844 or 5837)	Manufacturing Applications (3847 or 5835)
Industrial Maintenance	Career Management Success (5701) (optional)	Intro to Electromechanical (5834)	Electromechanical I (5832)	Electromechanical II (5833)
Engineering	Introduction to Engineering Design (PLTW) (5793)	Principles of Engineering (PLTW) (5791)	Aerospace Engineering (PLTW) (5796) Civil Engineering (PLTW) (5795) Biotechnical Engineering (PLTW) (5797) Digital Electronics (PLTW) (5792) Computer Integrated Manufacturing (PLTW) (5794)	Engineering Design & Development (PLTW) (5798)

Entry-level courses are not grade-level specific

Marketing

Joy Smith, Consultant	y Smith, Consultant 615-532-6248		joy.smith@tn.gov	
Program of Study	CTE Coursework			
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Global Marketing		Marketing & Management I Principles (5000 or 5030)	Retail Operations (5022 or 5052)	International Business & Marketing (5015 or 5045)
Organizational Management		Marketing & Management I Principles (5000 or 5030)	Marketing & Management II – Advanced Strategies (5001) Entrepreneurship (5005 or 5035)	Virtual Enterprise International (5057, 5062, 3757, 3762)
Marketing Communication		Marketing & Management I Principles (5000 or 5030)	Marketing & Management II – Advanced Strategies (5001)	Advertising & Public Relations (5016)
Entrepreneurship		Marketing & Management I Principles (5000 or 5030)	Marketing & Management II – Advanced Strategies (5001)	Entrepreneurship (5005 or 5035)
Marketing Research		Marketing & Management I Principles (5000 or 5030)	Marketing & Management II – Advanced Strategies (5001)	Market Research & Analysis (5017)
Merchandising		Marketing & Management I Principles (5000 or 5030)	Marketing & Management II – Advanced Strategies (5001)	Retail Operations (5022 or 5052)
Marketing & Finance		Marketing & Management I	Marketing & Management II –	Personal Finance (5613, 3766, 5038)

Entry-level courses are not grade-level specific

Principles (5000 or 5030)

Advanced Strategies

(5001)

Personal Finance

& Building Wealth (5037)

Science, Technology, Engineering & Mathematics

Tom D'Apolito, Consultant

615-532-2844

tom.dapolito@tn.gov

Program of Study	CTE Coursework			
	9 th Grade	10 th Grade	11th Grade	12 th Grade
Engineering &	Foundations of	Technological Issues	Advanced Design	Engineering Design
Technology	Technology	(3836)	Applications	(3839)
	(3835)		(3838)	
Science &	Foundations of	Technological Issues	Advanced	Problems &
Mathematics	Technology	(3836)	Technological	Solutions in
	(3835)		Applications	Technology
			(3837)	(3813)

Entry-level courses are not grade-level specific

Transportation, Distribution & Logistics

Sue Tucker, Consultant 615-532-2835 sue.tucker@tn.gov

Suc rucker, consum	a	010 001 1000		suc.tucker@til.gov
Program of Study		CTE Coursework		
	9 th Grade	10 th Grade	11 th Grade	12 th Grade
Automotive	Transportation Core	Automotive: Brakes	Automotive:	Automotive:
Technology	(5812)	(5726)	Suspension	Electrical /
			& Steering	Electronics
			(5729)	(5727)
				Automotive: Engine
				Performance
				(5728)
Collision Repair	Transportation Core	Collision Repair:	Collision Repair:	Collision Repair:
Technology	(5812)	Nonstructural	Structural	Painting &
		(5803)	(5805)	Refinishing
D: 17 1 1	T 1: 0	D: 1 D "	D: E (: /	(5804)
Diesel Technology	Transportation Core	Diesel: Preventive	Diesel: Electrical /	Diesel Engine
	(5812)	Maintenance	Electronic	(5807)
Aviation		(5808) Career Management	(5806) Aviation	Aviation
Maintenance		Success	Maintenance I	Maintenance II
iviairiteriarite		(5701) (optional)	(5801)	(5802)
Aviation Flight		Career Management	Introduction to	Theory of Flight
/ Widtion Flight		Success	Aerospace	(5811)
		(5701) (optional)	(5809)	(0011)
2-4 Cycle Engines	Transportation Core	2-4 Cycle Engine I	2-4 Cycle Engine II	2-4 Cycle Engine III
, ,	(5812)	(5723)	(5724)	(5725)
Distribution &	Career Management	Principles of	Warehouse &	Warehouse &
Logistics	Success	Transportation,	Distribution I	Distribution II
	(5701) (optional)	Distribution &	(5813)	(5722)
		Logistics		
		(5810)		

Entry-level courses are not grade-level specific